

Notice of Allowability	Application No.	Applicant(s)
	09/704,684	ZHANG ET AL.
	Examiner	Art Unit
	Toan D Nguyen	2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 10/26/04.
2. The allowed claim(s) is/are 16-17 are renumbered 1-2, respectively.
3. The drawings filed on _____ are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date 3.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Regarding claim 16, the prior art fails to teach a combination of the steps of:

wherein the packet tag is defined to be $P_{i,k}$ where i represents the number of queues and k represents number of packets,

an arrive time is defined to be $t_{i,k}^a$ and is the current system time when the packet enters a queue,

the finish time is defined to be $t_{i,k}^f$ and is equal to $t_{i,k}^a + D$ where D is the packet delay bound,

the start time is defined to be $t_{i,k}^s$ and is equal to $t_{i,k}^f - D_{i,k}^{ret} - D_{i,k}^{frag}$ where $D_{i,k}^{ret}$ is an estimated delay budget for retransmission for packets that can be retransmitted and $D_{i,k}^{frag}$ is the estimated delay budget for fragmentation, and

the deadline for each of the plurality of packets is defined to be $t_{i,k}^d$ and is equal to the current system time t minus the start time $t_{i,k}^s$, in the specific combination as recited in the claim.

Regarding claim 17, the prior art fails to teach a combination of the steps of:

the packet tag is defined to be $P_{i,k}$ where i represents the number of queues and k represents number of packets,

an arrive time is defined to be $t_{i,k}^a$ and is the current system time when the packet enters a queue,

the finish time is defined to be $t_{i,k}^f$ and is equal to $t_{i,k}^a + D$ where D is the packet delay bound,

the start time is defined to be $t_{i,k}^s$ and is equal to $t_{i,k}^f - D_{i,k}^{ret} - D_{i,k}^{frag}$ where $D_{i,k}^{ret}$ is an estimated delay budget for retransmission for packets that can be retransmitted and $D_{i,k}^{frag}$ is the estimated delay budget for fragmentation, and

the deadline for each of the plurality of packets is defined to be $t_{i,k}^d$ and is equal to the current system time t minus the start time $t_{i,k}^s$, in the specific combination as recited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 703-305-0140. The examiner can normally be reached on Monday- Friday (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 703-308-6602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER